PRE BID REPLY

BANGALORE WATER SUPPLY
AND
SEWERAGE BOARD
CAUVERY BHAVAN, KEMPEGOWDA ROAD,
BANGALORE – 560 009

Tender Number: BWSSB/CE(WWM)West/ACE(WWM-P-WEST)/P/DCE(WWM-E&W)/TA-2/874/2023-24 DT 13-02-2024

Name of Work: Tender for the Design and Up-Gradation of Existing 40MLD Capacity STP at Rajacanal (Phase-I) with Extended Aeration Based on A2O Process with Operation and Maintenance for a Period of Two (2) years during work contract and Five (5) years after work contract on Turnkey Basis.

TENDER REF: BWSSB/CE(WWM)West/ACE(WWM-P-WEST)/DCE(WWM-E&W)/TA-2/874/2023-24 Dt: 13.02-2024

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
1	PART 1-Project details_RCP-I_Jan 2024/1.4 Scope of work	Two years of Operation and Maintenance during construction period in complete to be maintained by the contractor as per the conditions of contract.	Bidder understands that during construction period, there may be various activities like Demolition, Dismantling, Interfacing, Civil works and other works. Kindly request the client to confirm whether which Process units/systems to be operated and maintained during this period as per the existing site condition.	It is the responsibility of the contractor to install the equipment stream wise/ equipment wise with working and standby mode without effecting the treatment of influent received.
2	PART 1-Project details_RCP-I_Jan 2024/1.4 Scope of work	Construction of a partition wall in the aeration tank. Re-routing of existing internal	Like mentioned activities, there are so many Civil construction activities to be done.Bidder	Yes confirmed, it is the responsibility of the contractor to install the equipment stream

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		recycle pipeline from inlet of existing anoxic tank to the downstream of the anoxic tank to convert the anoxic tank into aerobic tank.	understands that during this period, the sewage influent to this plant shall be bypassed /diverted to some other plants. Kindly confirm.	wise/ equipment wise with working and standby mode without effecting the treatment of influent received.
3	VOLUME 3 of 4 (TENDER DRAWINGS)	Drawings	We request the client to provide GA drawings of all process structures and non-process structures .	Bidder to visit the site and ascertain.
4	Volume - 1 Bid Document	The Tender processing fee once paid will not be refunded	Bidder understands that there is no tender processing fee to be paid for Bid submission other than EMD(Bid security)Kindly confirm.	Bidder to pay tender processing fee as per KPPP guidelines.
5	Volume - 1 Bid Document	Provisional sum is meant for executing any foreseen/unforeseen work and can be utilized fully, partly or nil as per the specific requirement during the course of execution shall be reimbursed at per actual.	Bidder request the client to provide the provisional sum value allocated for this package.	Tender conditions prevail.
6	Volume 1/ Clause No: 4.13	(a) Availability by owning the following key and critical equipment for this work: Equipment Capabilities. The Tenderer should own, or have assured access (through hire, lease, purchase agreement, availability of manufacturing equipment, or other means) to the equipment /machines listed hereunder and in full working order, and must demonstrate that	Request for amendment: The Tenderer should own, or have assured access (through hire, lease, purchase agreement, availability of manufacturing equipment, or other means) to the equipment /machines listed hereunder and in full working order, and must demonstrate that based on known commitments, they will be available for use in the proposed contract.	Confirmed

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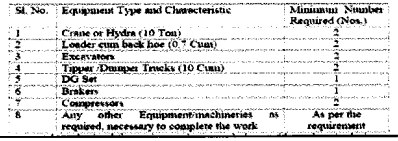
		based on known commitments, they will be available for use in the proposed contract. The Tenderer may also list additional equipment that he would propose for the contract, together with an explanation of the proposal. (a) Availability by owning at least 50% of the required specified Key & Critical equipment's for the above work. (b) The remaining 50% can be deployed on lease/hire basis for all works provided the relevant documents (Commitment, Agreement etc.,) for the availability of the work are furnished. (c) Vendor credentials of minimum two nos. of external RMC plant to be submitted for review and approval along with ready mix design test reports 		
7	General	Right Of Way	Bidder understands that all Right of way shall be in client's scope.Kindly confirm.	The Contractor has to do all the liasoning work for any ROW issue. Client will provide all support in resolving the ROW issue.

Sl. No.	Equipment Type and Characteristic	Minimum Number Required (Nos.)
1	Crane or Hydra (10 Ton)	2
2	Loader cum back hoe (0.7 Cum)	2
3	Excavators	2
4	Tipper /Dumper Trucks (10 Cum)	2
5	DG Set	1
6	Brakers	1
7	Compressors	2
8	Any other Equipment/machineries as required, necessary to complete the work	As per the requirement

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8	PART 1-Project details_RCP-I_Jan 2024/1.4 Scope of work	Construction of Compound Wall at the periphery of BWSSB Premises as per the directions of Engineer-In-charge	Based on the site visit, we understand that compound wall is constructed for the maximum plot area of Phase 1 STP.Bidder understands that the compound wall is to be constructed wherever compound wall is not provided.Please confirm.	Yes confirmed. Bidder also to carryout the work wherever required as per the directions of engineer-in-charge.
9		Construction Power	Bidder understands that client shall provide the construction power at a single point during execution.	It is under Bidder's scope.
10		Construction water	Bidder understands that client shall provide the construction water at a single point during execution.	It is under Bidder's scope.
11	PART 1-Project details_RCP-I_Jan 2024/1.4 Scope of work	Minimum 2 nos. of air conditioner of 2 tonnes capacity shall be provided in SCADA room.	Bidder understands that there is no separate SCADA building required. PLC/SCADA shall be placed in the existing ADMIN building.	Bidder's understanding is correct. PLC/SCADA shall be installed in the existing admin building as per contract requirement.
12	PART 1-Project details_RCP-I_Jan 2024/1.5 Additional Scope of works	Construction of inlet chamber, screen channels, new disc cloth filter unit with pump house, centrifuge building, Alum building	Bidder understands that these are the only structures to be newly constructed. Kindly confirm.	Confirmed.
13	PART 1-Project details_RCP-I_Jan 2024/1.4 Scope of work	Admin Building – Providing and fixing Granite in complete G+2F.	Bidder understands that construction of new Admin Building is not included in this scope of contract.Kindly confirm.	Confirmed.
14	PART 1-Project details_RCP-I_Jan 2024/1.5 Additional Scope of works	Sludge storage yard should be constructed since there is no provision for sludge (centrifuge) storage at the site.	We understand that Sludge disposal from the Centrifuge shall be in client's scope. Kindly confirm	It is under bidders scope.

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15	PART 1-Project details_RCP-I_Jan 2024/1.5 Additional Scope of works	Dismantling and demolition	Bidder understands that the following are the only structures/building to be demolished; 1.Pre-Treatment Unit - Inlet chamber-Classifier -Degriting chamber 2.Sludge Dring Bed Kindly confirm.	Confirmed.
16	Volume - 1 Bid Document	The Amount put to Tender is exclusive of GST	Bidder understand that the Price to be quoted in Price schedule 7 shall be exclusive of GST. Kindly confirm.	Confirmed.
17	Volume 1/ Bid document	Price Adjustment shall be admissible from the date of opening of tenders (original or extended)	We assume the technical bid submission date as a base date. Kindly confirm.	Tender conditions prevail.
18	Volume 1/ Bid document	Procedure for Tests Prior to Contract Completion: The Contractor shall provide all necessary labour, materials, electricity, fuel, and water.	We are requesting the Employer to provide electricity and water during the tests and we presume that during tests, parameters shall be examined on monthly basis. Kindly confirm.	This is brown field project this question does not arise.
19	Volume 4/9B/Preamble to price schedules and payments	Provisional sum shall not be considered for Tender evaluation.	We noticed that there is a provisional sum line item in the price schedule where there is no values specified against this item. We understand bidder to quote excluding the provisional sum in the commercial offer. Please confirm and kindly provide us the value of Provisional Sum.	Confirmed.

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20	Volume 1/ Bid document	Limitation of Liability: The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed a multiple of the Contract Price specified in the SCC or, if a multiple is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent Infringement.	Bidder understand that during Design Build period, the total liability of the Contractor shall be limited to 100% of the Acccepted Contract amount related to Part-1- Design Build (DB) Stage excluding interim O&M; Bidder understand that during O&M period, the total liability of the Contractor shall be limited to 100% of the Acccepted Contract amount related to Operation and Maintenance Period (O&M); Kindly confirm	Confirmed. However it is to be noted that liability during the interim O&M period will also be there limited to 100% of the Accepted Contract amount for interim O&M period. This will be in addition to the liability of the Design Build Contract.
21	Volume 1/ Bid document	Approach and Construction Methods The applicant must attach with their application, a note giving a general description on the approach to the construction methods, technologies, quality assurance schemes proposed, deployment schedule of equipment proposed to be used, etc.,for ensuring completion of the work as per specifications within the desired time- frame	The clause "Approach and Construction Methods" is appearing under the Qualification section of the tender document. We understand that this is a technical submittal requirement and is thus not a part of section 4. Qualification of Bidder.	Yes confirmed
22	Vol 2 /Section 7	The TSPS of capacity 40MLD has been constructed within Raja Canal STP premises to pump sewage of 40MLD to inlet of Rajacanal STP Phase-	Based on the tender document and site visit, we presume that there is no scope of work in the existing 40 MLD TSPS.	Yes, Bidder understanding is correct.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
23	Vol 2 /Section 7	Laying of new DI pumping main from existing 20 MLD (ISPS) to the inlet of Raja Canal Phase-1 STP with required capacity pumps and pipelines arrangements as per the directions of the engineer-in-charge.	Based on the tender document and site visit, we presume that only a new pumping main has to be laid to the Phase I STP. There is no scope of work of replacement of pump within the ISPS. Please confirm.	Laying of pumping main and associated accessories from 20MLD ISPS to receiving chamber of Rajacanal Phase-I STP is under this contract package scope.
24	Vol 2 /Section 7	Existing TSPS to be in running condition until the construction of the new 80 MLD ISPS at Rajacanal.	Bidder presumes that the new 80 MLD ISPS/ TSPS is not part of the scope of this tender. However flow shall be made available at the receiving chamber by the client. Please confirm.	Yes confirmed.
25		General	Bidder presumes that the raw sewage is made available to the Phase I STP from 40 MLD TSPS and 20 MLD ISPS. Bidder understands that the 80 MLD TSPS mentioned in point 3 above is same as the peak flow of 40 MLD TSPS.Please confirm. The treatment plant capacity is designed for 40 MLD Average flow and 80 MLD Peak flow in any condition. Please confirm.	Laying of pumping main and associated accessories from 20MLD ISPS to receiving chamber of Rajacanal Phase-I STP is under this contract package scope. 20MLD Flow from 80MLD TSPS is not under this project scope. Confirmed, the existing STP is designed for 40MLD avg. flow and 80MLD peak flow.
26	Vol 2 /Section 7	Mechanical raked fine screens in PTU, Manual Trash racks inside DC-2 chamber, belt conveyors along with all its accessories and allied civil works should be provided.	Based on the site visit, the Distribution chamber 2 is part of Phase II STP. We presume this is a typo error and not part of this tender. Please confirm.	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
27	Vol 2 /Section 7	Diversion of Inlet sewage from Jackwell chamber to phase-2 Coarse Screen Chamber with required capacity pumps and pipeline arrangements as per the directions of engineer in charge for installation of Trash Rack Screen	Based on the site visit, the Jackwell is not part of the STP Phase I. Hence bidder presumes that the scope is not part of this tender. Please confirm.	Yes confirmed.
28	Vol 2 /Section 7	Dismantling and demolition of Existing Primary Treatment Unit of STP and Construction of new primary treatment unit - inlet structure with vortex type grit removal system.	The Primary Treatment is the same as the inlet structure and the vortex grit chamber. Please confirm.	Confirmed.
29	Vol 2 /Section 7	Necessary arrangement / provision to be made as such, Plant shall be kept in running condition at all times during replacement of electromechanical equipment's and any other works.	As there are only 2 streams in the plant, only 50% flow can be treated while taking the other stream for upgradation. The remaining flow shall be either directed to Phase II STP for a shorter time period until the upgradation activity is over. Please confirm.	Confirmed.
30	Vol 2 /Section 7	Treated Effluent and Sludge Characteristics The treated effluent characteristic for the STP shall comply with the following discharge standards given in the Table below:	The treated effluent quality parameter mentioned in the table 1.6 is applicable after the commisioning of the upgraded plant. Please confirm. Kindly note that the while one of the stream is under upgradation, the quality of the treated effluent shall be same as that already being achieved at site.	Tender conditions prevail. Tender conditions prevail.

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31	Vol 2 /Section 7	Cleaning of existing wet well and finishing work for existing raw sewage pump house shall be carried out as per the directions of Engineer-In-Charge.	During the maintenance activity as mentioned in the clause, the raw sewage shall be diverted to the Phase II STP. Bidder presumes that there are existing pipelines to divert the flow to the Phase II STP, prior to the TSPS or the ISPS. Please confirm. This diversion is not part of this tender. Please confirm.	Bidder to visit the site and ascertain.
32	Vol 2 /Section 7	Table 1.6 Solid Concentration in Dewatered Sludge is 4-5%	Bidder presumes that this parameter is applicable until the centrifuge is commissioned Please confirm.	Confirmed.
33	Vol 2 /Section I	Minimum clear distance of 1.2m shall be provided between two adjacent screen channels to permit safe and convenient access for operation and maintenance.	The minimum clear space between the adjacent screen channels shall be as per the vendor recommendations. Please confirm.	Tender conditions prevail.
34	Vol 2 /Section I	All channels carrying process liquid shall be fully covered with solid non-skid GRP cover plates (not grating) designed for human traffic live loads at a minimum and heavy vehicle live load wherever the channel crosses traffic paths	Bidder requests the client to consider RCC covers, which are better in load bearing compared to GRP cover. Please confirm.	Removable RCC cover shall be provided.
35	Vol 2 /Section I	Plant Water System: Further, plant water shall meet "Non-Detectable Fecal Coli-form" standards wherever it has possibility of direct or indirect human contact.	The fecal coliform level in the plant water shall be same as the treated sewage level, as the same water is used here. Hence non detectable fecal coliform is not attainable. Please clarify.	Tender conditions prevail.

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36	Vol 2 /Section I	Contractor shall submit self-explanatory process design calculations in editable MS-Excel format considering the requirements specified in Part 5 and elsewhere in this Bidding Document. Further contractor shall also submit simulation Model of process design by using GPS-X software.	Bidder presumes that only excel calculation shall be submitted during bidding stage. The biological simulation shall be submitted after award either in Biowin or in GPS X.	Confirmed.
37	Vol 2 /Section I	Vortex grit chamber: Standby – nil	The Vortex grit chamber shall be sized for N-1 condition. As per CPHEEO 100% Standby shall be provided. Please confirm.	Bidder to refer tender document, part 5, clause 5.8.4.
38	Section 7B Schedule XI	Energy Consumption during O&M period	QD1 and QD2 : Bidder presumes that the value of 5MLD mentioned is a typo error. The same shall be 40 MLD. Please correct.	Confirmed, bidder to read it as 40MLD. Bidder to refer Addendum-1.
39.	Volume 2/Section 7/ 1.4 Scope of Work for STP	Laying of new DI pumping main from existing 20 MLD (ISPS) to the inlet of Raja Canal Phase-1 STP with required capacity pumps and pipelines arrangements as per the directions of the engineer-in-charge.	We presume that tapping provision with isolation valve is already available in the existing 20 MLD(SPS), new pipe line to be connected from that tapping point to the raja canal phase- 1 STP. Please confirm	Bidder to visit the site and ascertain.
40	Volume 2/Section 7/ 1.4 Scope of Work for STP	Providing and Fixing 2nos of Trash Rack Screen Manual with all lifting arrangement with Electrical hoist inside Distribution Chamber – 2 as per the directions of Engineer in	We presume that only Trash Rack Screen shall be replaced and no need to replace the existing inlet & outlet Sluice gates. Please confirm	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
		charge.		
41	Volume 2/Section 7/ 1.4 Scope of Work for STP	Diversion of Inlet sewage from Jack well chamber to phase-2 Coarse Screen Chamber with required capacity pumps and pipeline arrangements as per the directions of engineer in charge for installation of Trash Rack Screen.	We presume that the Diversion of Inlet sewage from Jackwell chamber to phase-2 Coarse Screen Chamber pipeline arrangements shall be in client scope Please confirm.	Tender conditions prevail.
42	Volume 2/Section 7/ 1.4 Scope of Work for STP	Re-routing of existing internal recycle pipeline from inlet of existing anoxic tank to the downstream of the anoxic tank to convert the anoxic tank into anaerobic tank.	Kindly provide us the pipe size and pipe length for Re-routing of existing internal recycle pipeline from inlet of existing anoxic tank into anaerobic tank.	Bidder to visit the site and ascertain design accordingly.
43	Volume 2/Section 7/ 8.31 Valves	8.31 Valves (k) All the valves shall be provided with Bypass valve arrangement 10% of main valve size.	We presume that 10 % of bypass piping arrangement shall be applicable only for Valve size more than DN1200. Please confirm.	Tender condition prevails.
44	Volume 2/Section 7 / 8.11 Fine Bubble Membrane Diffusers	8.11 Fine Bubble Membrane Diffusers 8.11.1 Tubular Type Diffusers (y) Furnish all components necessary to provide a complete mixing and aeration system. Work shall include but not necessarily be limited to the following:	We presume that the UPVC pipe MOC also acceptable for Air Diffuser connectors. Please confirm.	Air Diffuser connectors shall be of SS316 only as per Tender specification.

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		Diffuser connectors (SS 316).		
45	Volume 2/Section 7 / 8.31.2 Butterfly Valve	Butterfly valves shall be of double eccentric and resilient seated type generally as per BS EN 593 and IS 13095.	We presume that Butterfly valve end connection shall of wafer end for size up to DN600 and above DN600 shall be flanged end. Please confirm.	Butterfly valves shall be of double flanged long type as per tender specification. The same to be followed.
46	Volume 2 / Section I / 5.6. Hydraulic Design Requirement	□ Maximum pipe flow velocity shall be no more than 1.0 m/s for all gravity flow and pump suction lines unless specified otherwise. □ Maximum pipe flow velocity shall be no more than 2 m/s for all pumped discharge lines unless specified otherwise.	We assume that the velocity shall be as follows. 1. Pump suction - 1.0 -1.5 m/s (max.) 2. Pump Discharge - 2.0 -2.5 m/s (max.) Please confirm.	Tender conditions prevail.
47	Volume 2 / Section 7; Part-12 Cl. _ 12.2 scope of works ; Part 12-1	11kV Metal enclosed Switchboards, 11kV/0.433kV transformers with RTCC and OLTC panel, 415V Diesel Generator Sets with Acoustic Enclosure & AMF Panel, synchronising panel, MLDB, 415V Metal enclosed switchboards / distribution boards / motor control centres, 415V capacitor banks with APFCR panel, Battery, Battery charger, DC Distribution board, Variable Frequency drives, Lighting system, Power & control cables, Cable carrier system, Earthing &	1) We presume that Bidder can assess the existing MCC (3 Nos) and the same can be used for the new replacement equipment/drives. 2) Pl. furnish the list of electrical items which are need to be dismantled if any and where to be stored dismantled items.	1. Are in **"BIDEER"** scope including dismantling and tender conditions prevails. 2. All the electrical equipments to be dismantled and new items to be supplied, erected & commissioned and all the dismantle materials to be stocked and handed over to the client.

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		Lightning protection system.		
48	Volume 2 / Section 7; Part-12 Cl. 12.4 Power supply arrangement ; Part 12-2	The power supply arrangement for the STP/ISPS shall be as per Single line diagrams.	Pl. furnish this single line diagram with Owner / bidder scope demarcation.	Bidder to visit the site and ascertain.
49	Volume 2 / Section 7; Part-6 Cl. 6.18_Preferred Makes / Manufacturers; Part 6-91;	11 kV Metal enclosed switchboards M/s Siemens M/s ABB M/s BHEL M/s Schneider Electric	Bidder presume that Authorized license partners / System Integrators of these manufacturers are also to be considered as approved vendors. Please confirm.	Tender conditions prevail. Bidder's understanding is not acceptable.
50	Volume 2/Section 7:PART 6 PARTICULAR ELECTRICAL PLANT REQUIREMENTS_ Cl.6.12.7 Junction Boxes _part 6-61	For LT motors of 18kW and above, power junction boxes shall be provided where 3 core aluminium shall be terminated, and copper flexible cables shall be taken from it to the motor terminals.	Bidder propose that power junction box to be provided for the motor rating above 90 kW or where Power cable not able to terminated directly at the Motor. Kindly confirm	Tender conditions prevail. Bidder shall also note the degree of protection for Junction Boxes shall be IP65 for outdoor and IP 54 for Indoor.
51	Volume 2 / Section 7; Part-6 6.14.2 Applicable Standards; Part 6-72;	(a) Typical cable tray arrangement/trench arrangement/directly buried cable arrangement etc are shown in Volume -4, Typical Drawings.	Pl. furnish these drawings (Typical cable tray arrangement/trench arrangement/directly buried cable arrangement).	Bidder to visit the site and ascertain.
52	Volume 2/Section I:PART 6 PARTICULAR ELECTRICAL PLANT REQUIREMENTS_6.10.12 Constructional Features_Part 6-55	The drive rating 22kW and above there is a separate (VFD panel) panel shall be provided and installed in Air Condition room, it shall not club with PCC / MCC panels.	Bidder propose that standalone VFD to be provided for drive rating above 55 kW. Kindly confirm.	Tender conditions prevail.

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53	Volume 2/Section 7:PART 6 PARTICULAR ELECTRICAL PLANT REQUIREMENTS_ cl. 6.16.1 Solar PV Roof top system for street lighting only _part 6-85 AND Volume 2/Section 7:PART 10B ParticularTechnical Specification-Civil & Structural_cl.1.23 Buildings and Structures _ Part 10B- 20	Solar PV Roof top system for street lighting only AND 40) The roof of the buildings shall be provided with Solar Panels of approved make as per approval of Employer for sustainable development and meeting basic lighting system load from solar power.	Bidderpresume that solar PV roof top system to be considered only for street lighting purpose and not for any other indoor/outdoor lighting. Kindly confirm.	Tender conditions prevail.
54	Volume 2 / Section 7; Part-12 Cl. _ FIRE ALARM & PROTECTION SYSTEM ; Part 12-14	FIRE ALARM & PROTECTION SYSTEM Nitrogen injection fire prevention method for transformer Sand & Water Bucket.	Bidderpresume that Nitrogen injection fire prevention method need not to be considered for Distribution transformer. Kindly confirm.	Tender conditions prevail.
55	Volume 2 / Section 7; Part-12 Cl. _ 12.14 Cabling ; Part 12-10	(e) Cable Installations	Bidder presume that Power/control cables are to be routed through direct buried method in the outdoor whereas routed through Trench/Trays inside the buildings/substations. Kindly confirm.	For Outdoor cabling is buried and indoor cabling is through trenches with tray work. And tender conditions prevail.
56	Volume 2 / Section 7; Part-12 Cl. _ 12.9.2 ENERGY EFFICIENT INDUCTION MOTORS ; Part	(a) Motors shall be suitable for 1 Motors rated upto 355 kW : LT Supply 2 Motors > 355 kW : HT supply 3 Process Air Blower Motors	Bidder presume that here LT supply means 3ph, 415V; HT supply means 3ph, 11 kV supply. Kindly confirm.	Tender conditions prevail.

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	12-4	upto 355 kW : HT or LT supply		
57	General		IO Channel Density Bidder free to assume the IO Channel Density for IO cards (AI, AO, DI, and DO). IOs shall be Non redundant IOs. Please confirm. DI – 32 Channel DO - 32 Channel AI – 16 Channel AO – 08 Channel	Tender conditions prevail. IO modules should be of the same series of PLC and IO module should be hot-swappable.
58	Vol 2 / Sec 7 / Part 6-5	General Electrical Requirements All equipment shall be OEM (Original Equipment manufacturer) type only	Please allow us for system integrators / channel partner of OEM as approved vendors. Kindly cnfirm	Tender conditions prevail.
59	Part 7 General_Requirements_ICA_ RCP-I_Jan 2024, 7.13.5 Uninterruptible Power Supply (UPS)	The UPS provided shall be sized to provide power to maintain system functioning for a period of minimum two hours (120 Minutes) on full load, in case of power failure.	Bidder shall consider the UPS backup time as 60Minutes	Tender conditions prevail
60	PART 13-Particular ICA Requirements_RCP-1_Jan 2024,	Typical Drive Control Philosophy table	Bidder are free to choose the control philosophy for drives as per process design requirement	Tender conditions prevail and same shall be included in the P&ID design and provided.
61	PART 13-Particular ICA Requirements_RCP-1_Jan 2024, c) I/O Modules:	I/O Modules should be hot swappable.	Bidder shall consider Non redundant IO modules	Tender conditions prevail.
62	PART 13-Particular ICA Requirements_RCP-1_Jan 2024, 13.31 Approved Vendor/Manufacturer/Make	i) List of Makes for Instruments table	Bidder free to choose the Vendors as per the Process design and specification requirements for STP	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
	List-Instrumentation			
63	PART 13-Particular ICA Requirements_RCP-1_Jan 2024, c) I/O Modules:	PART 13-Particular ICA Requirements_RCP-1_Jan 2024, c) I/O Modules:	Bidder shall consider 20% extra I/O modules of the installed capacity in the panel	Bidder shall consider additional 30% extra I/O modules of the installed capacity in the panel for future expansion and tender conditions prevail.
64	General		Please provide the overall P&ID.	Bidder to visit the site and ascertain.
65	PART 13-Particular ICA Requirements_RCP-1_Jan 2024, c) I/O Mo	The scope of instrumentation, control and automation (ICA) works for Kadubeesanahalli Sewage Treatment Plant under this contract shall comprise of the design, manufacture, supply, programming and configuration, off site testing, delivery to site, installation and erection, testing, commissioning, setting to work and provision of documentation for a complete instrumentation, control and automation system including the interfaces required to provide monitoring and control for a safe and efficient operation of the plant locally as well as remote monitoring from the centralized SCADA Center to be established under contract package CP-24 and BWSSB MIS-2 SCADA center at SHIMSHA Bhavan. The SCADA system shall be designed and configured to transmit complete STP operational data	The scope of instrumentation, control and automation (ICA) works for Kadubeesanahalli Sewage Treatment Plant under this contract shall comprise of the design, manufacture, supply, programming and configuration, off site testing, delivery to site, installation and erection, testing, commissioning, setting to work and provision of documentation for a complete instrumentation, control and automation system including the interfaces required to provide monitoring and control for a safe and efficient operation of the plant locally as well as remote monitoring from the centralized SCADA Center to be established under contract package CP-24 and BWSSB MIS-2 SCADA center at SHIMSHA Bhavan. The SCADA system shall be designed and configured to transmit complete STP operational data	Tender conditions prevail.

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		(data transfer in bulk) to the centralized SCADA center's as indicated above.	(data transfer in bulk) to the centralized SCADA center's as indicated above.	
66	Volume2-section 7 part 16.2: operation and maintenance requirement	During the Operation Service Period, the Contractor shall collect, transport, and dispose of the screenings, grit, and dewatered sludge cake in full compliance with all applicable laws, rules, and regulations.	We understand the fact that the scope of disposal of screenings, grit & dewatered sludge cake is in the scope of contractor, hence we request the employer to confirm the following: During the interim O&M and operational service period: 1) The employer will provide suitable land for the disposal of screenings, grit and dewatered sludge cake. 2) The applicable the tipping fee for the statutory land for disposal of screenings, grit and dewatered sludge cake shall be the scope of employer	Tender conditions prevail. The contractor to make all arrangement on his own.
67	Volume2-section 7 part 1 : 1.4 :Scope of Work for STP	Two Years of Operation and Maintenance during Construction Period in complete to be maintained by the contractor as per the conditions of Contract followed by	You would appreciate that since the contractor will be refurbishing the 40 MLD STP plant after award of contract, the contractor could be able to meet the required KPI parameters only after completion of refurbishment. Till such period contractor will not be able to achieve KPI parameters. Hence request you to waive off the guaranteed availability during interim O&M period for this 40MLD STP plant.	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
68	Volume2-section 7 part 1 : 1.6 :Treated effluent and sludge characteristics	Pg. no. 10, 11, 1.6 Treated Effluent and Sludge Characteristics	The employer would appreciate the fact that the functional guarantees mentioned in part 1 subsection 1.6 under treated effluent and sludge characteristics is applicable only during the 5 year operation and service period.	Confirmed.
69	Volume 1/ Bid Document/43.2, Pg. No. 106	Within 14 days from the award of contract, the contractor shall submit to the Employer security deposit for the O&M contract in the form of an unconditional Bank Guarantee in the amount as stated in the Contract Data, payable to the Employer who is responsible for the O&M Contract. Such guarantee shall conform to the requirements set forth in the preceding two paragraphs, and shall be valid up to 30 days beyond expiry of the Operation and Maintenance Period	Bidder understands that the security deposit for O&M period will be 5% of the respective annual O&M contract price and will be renewed yearly. Kindly confirm.	Tender conditions prevail
70	General	Operation and Maintenance	We are requesting the employer to confirm the following: 1. During the operation service period planned maintenance generally requires 8 days in a year, we request Employer to consider that 8 days per annum as planed outage. 2. Therefore, during the 8 days period of planned outage,	Tender condition prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			contractor will not be able to produce the required 40MLD net put,. Kindly confirm.	
71	Bid Document, pg. no. 140	Damages payable by Contractor to Employer on a monthly basis shall be equal to the actual cost of the excess energy used for Operation and Maintenance of the Works for STP and ISPS under the Contract, based on the guaranteed consumption provided by the Contractor under the relevant Technical Schedules XI of section 7B and the current rates charged to the Employer for electricity consumed. Such payable will be assessed for each month during the O&M Period in which the actual power consumption exceeds the guaranteed power consumption calculated on a —kilowatt-hour consumed per kiloliter of sewage basis and the guaranteed power consumption based on a —kilowatt-hour consumed per kg of BOD5 Treated	We request the employer to evaluate power on annual basis for calculation of LD during O&M. Please confirm.	Tender conditions prevail.
72	Bid Document, pg. no. 27	All the documents should be uploaded to the KPP Portal wizard of GOK. Tenderer should take a print out of the declaration letters provided in the website on company letter head and should sign, stamp and upload the same	We have checked the website of E-procurement of GoK where the declaration format is not been found. Kindly share the same.	Bidder to follow the procedure as per KPP portal.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
		to the KPP Portal wizard.		
73	Bid Document, pg. no. 130	Appendix 2 – insurance requirements other insurances – as per contract requirement	We request Employer to specify the details of other insurances that to be taken during O&M separately. Please confirm.	Bidder to consider Insurance for O&M also from the date of commencement of work contract.
74	18 f 143	**3. Experience in Tertiary Filtration** The Applicant as a sole entity or a Lead Partner or Partner in a Joint Venture shall have successfully executed including complete design, procurement, supply, installation, construction, testing and commissioning of all civil, mechanical, electrical and instrumentation works of **One (1) No. of 30 MLD Capacity Tertiary Filtration (cloth / disk / sand media filter) in Sewage Treatment Plant in India and the tertiary Filter should be in Operation for a period of minimum one year during last 7 years as on date of Bid submission.**	We understand that the main purpose of this clause is to judge the **Bidder's experience in "Tertiary Filtration"** and since Tertiary Filtration being more relevant in **Effluent treatment plants (ETPs)/ Common Effluent Treatment Plants (CETPs)** and thus same must be considered in addition to STPs experience. Further, **for defining work experience timeline, the experience is also requested to be sought within last 7 Financial years.** In view of our above observations, The aforesaid clause may please be amended as under: **4. Experience in Tertiary Filtration** The Applicant as a sole entity or	Tender Conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			a Lead Partner or Partner in a Joint Venture shall have successfully executed including design, procurement, supply, installation, construction, testing and commissioning of all civil, mechanical, electrical and instrumentation works of **One (1) No. of 30MLD Capacity Tertiary Filtration (cloth/Disk/sand media filter) in Sewage Treatment Plant (STP) / Common Effluent Treatment Plant (CETP) / Effluent Treatment Plant (ETP) in India and tertiary filter should be in Operation for a period of minimum one year during last Seven (7) Financial years preceding the date of bid invitation.**	
75	20 of 143	**4.11** (a) The tenderer who have applied for corporate debt restructuring (CDR)/ Strategic debt restructuring (SDR)/ facing recovery preceding from Financial Institution/ facing winding up proceedings / those under NCLT in the last 5 Financial Years (i.e 2018-19 to 2022-23) shall not be considered for bid qualification. In this	**Since the Practice of getting issued the certificate of statutory Auditor that the bidder is not under CDR/SDR/ not facing recovery preceding from Financial Institutions etc. is not the standard practice and is no more available. Further such clause was deleted and was replaced with the requirement of Submission of affidavit by the bidder in past tenders of BWSSB.**	Confirmed, the bidder shall submit an affidavit.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
		regard, the Bidder shall submit along with tender, An affidavit along with certificate of statutory Auditor that the bidder is not under CDR/SDR/ not facing recovery preceding from Financial Institutions / not facing winding up proceedings / not under NCLT need to be submitted by the tenderer.	It is thus requested to follow the same practice and the said clause may be amended as under : The tenderer who have applied for corporate debt restructuring (CDR)/ Strategic debt restructuring (SDR)/ facing recovery preceding from Financial Institution/ facing winding up proceedings / those under NCLT in the last 5 Financial Years (i.e 2018-19 to 2022-23) shall not be considered for bid qualification. In this regard, the Bidder shall submit along with tender, **An affidavit that the bidder is not under CDR/SDR/ not facing recovery preceding from Financial Institutions / not facing winding up proceedings / not under NCLT need to be submitted by the tenderer.**	
76	Volume-1, pg. no. 34,	clause 29.2- Security Deposit	Within 20 **days** of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to **5%** of the Completion of works Contract Price (excluding O&M Price) plus additional	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract. Tenderer is required to submit the security deposit amount equivalent to 15% of total O&M Price for 7 years at the start of O&M period. We request BWSSB to amend the security deposit amount equivalent to 5% of the total O&M price for 7 years at the start of O&M period. Please confirm.	
77	Volume-1 pg. no. 123	Section 6: Contract data	Tender states that "maximum amount of Performance Damages for O&M: 25% of the O&M contract price." We request BWSSB to amend the clause as maximum amount of performance damages for O&M: 10% of the O&M contract price.	Tender conditions prevail.
78	Tech. schedule XI_Functional Guarantee	2.3 Energy consumption during Operation and maintenance period	Tender states that "During operation and maintenance period the below formula will be applied for arriving the guaranteed power consumption based on actual flow and actual inlet sewage characteristics. Symbol definition: QD1 = Design average influent sewage flow 5 MLD We presume that there is typographical error and shall be corrected as "QD1 = Design	Confirmed, bidet to read it as 40MLD. Bidder to refer Addendum-1.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			average influent sewage flow 40 MLD". Please confirm.	
79	Part 16 Operation and maintenance, pg. no. Part 16-2	Clause 16.1 – Operation and Maintenance requirements	Tender states that during the Operation Service Period, the Contractor shall collect, transport, and dispose of the screenings, grit, and dewatered sludge cake in full compliance with all applicable laws, rules, and regulations. We request BWSSB to provide an approved land fill area within 10km distance at a stretch from the site. Please confirm.	Tender conditions prevail.
80	Part 3 – General requirements, Pg. no. Part 3-9	Clause 3.10.1 - Vehicles	Tender specifies that "The Contractor shall purchase and maintain One Tata Nexon EV - Top End Model vehicle for thecontract to be kept available at all times for the sole use of the Engineer and his staff at the cost ofcontractor. The Contractor shall be solely responsible for the upkeep of the vehicle including taxes,insurance, licenses, fuel, oils, lubricants, repairs, and maintenance and shall also provide a competentdriver along with the vehicle and driver shall be familiar with Kannada and Hindi Languages. At theend of works contract the Contractor shall transfer the vehicles in good	Confirmed, vehicle to be provided till TOC is issued and not applicable for O&M period after work contract. The bidder to note 7 years O&M period include 2 years during work contract and 5 year after work contract.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			condition with brand new battery by replacing the utilized battery and it shall be same model and the make to Employer. No extra payment shall be made on this account." We presume that provision of vehicle for BWSSB officials only during DB period and NOT APPLICABLE for 7 years O&M period. Please confirm.	
81	Tech. schXI_Functional Guarantee	2.3 Energy consumption during Operation and Maintenance period	Tender states that "Guaranteed not-to-exceed power consumption under actual daily operating conditions for complete works to be calculated per formula below and result value shall be **Maximum of** **$PC_A = [0.4*PC_D]$** **Or** **PCA = [{PCD*(QA/QD)}*{(0.55*BA/BD)+(0.22*NA/ND)+(0.23*TA/TD)}]** As there is fixed energy requirement irrespective of variable flow & loads, we request BWSSB to amend the formula for energy requirement during 5 years O&M period as below. Guaranteed total energy consumption shall be guaranteed by the bidder at the Nominal design flow and design pollutant	Tender conditions prevail.

<table>
<tr><th>Sl. No.</th><th>Tender Reference</th><th>As per Tender Specifications</th><th>Question/Query/ Clarification/Comment</th><th>Client Response</th></tr>
<tr><td></td><td></td><td></td><td>in the following table:
<table>
<tr><td></td><td></td><td>To be guaranteed by Bidder</td></tr>
<tr><td>Guaranteed total energy consumption under nominal design load (PCD), kWh/d</td><td>(PCD-F) + (PCD-V)</td><td></td></tr>
<tr><td>Where, PCD-F</td><td>Fixed part (maximum fixed energy ≤33% of total energy consumption)</td><td></td></tr>
<tr><td>PCD-V</td><td>Variable part</td><td></td></tr>
</table>
PCA-V = PCD-V*(QA/QD))*((0.55*BA/BD)+(0.22*NA/ND)+(0.23*TA/TD))
PCD-V Guaranteed variable power consumption under design</td><td></td></tr>
</table>

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			conditions for complete works, kWh/day PCA-V Guaranteed not-to-exceed variable power usage under actual daily operating conditions for complete works, kWh/day QD Design average influent sewage flow 40 MLD QA Daily actual metered influent sewage flow for treatment BD Design average influent sewage BOD concentration specified in bid document (mg/L) BA Daily average of actual measured influent sewage BOD concentrations (mg/L) TD Design average influent sewage TSS concentration specified in bid document (mg/L) TA Daily average of actual measured influent sewage TSS concentrations (mg/L) ND Design average influent sewage TKN concentration specified in bid document (mg/L) NA Daily average of actual measured influent sewage TKN concentrations (mg/L) Pleas confirm.	
82	Part 1 – Project details, part 1-11	Clause 1.8 Minimum design life	Tender specifies that the minimum design life for diffusers shall be 7 years whereas in controversially indicated that at part 8 General mechanical	Clause 1.8 deleted

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			equipment, part 8 page 50, "gg) the minimum performance guarantee for damage, clogging and dissolution efficiency of the diffuser is 5 years. We request BWSSB to confirm the minimum design life of diffuser membrane required.	
83	Price schedule_40MLD STP at Rajacanal Phase-1	Schedule 6	Tender states that annual polyelectrolyte required quantity of 175.2 MT/year. We presume that polyelectrolyte qty 175.2 MT seems to high and never be used/consumed even 30% of the above said qty during operation and maintenance period. We request BWSSB to check & reconfirm the polyelectrolyte annual qty in schedule 6 of price schedule.	Typographical error, Bidder to read "Alum" as "175.2MT per year" and "Polyelectrolyte" as "16.75MT per year".
84			Disc Filter building not required. Just tank with roof enough.	Tender conditions prevail.
85			Disc filter hydraulics – intermediate pumps required.	Tender conditions prevail
86			Centrifuge building too big for just 2 machines?	Yes required, area shall include space requirement for polymer batch tank, polymer dosing pumps, MCC room, sludge collection area, thickening and dewatering etc.,
87			Ground water table at EGL why? we will use soil report.	Water table shall be as per in situ geotechnical investigation report.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
88	Pg. no. 18 Vol. 1	**Clause 3 Experience in Tertiary Filtration** The Applicant as a sole entity or a Lead Partner or Partner in a Joint Venture shall have successfully executed including complete design, procurement, supply, installation, construction, testing and commissioning of all civil, mechanical, electrical and instrumentation works of **One (1) No. of 30 MLD Capacity Tertiary Filtration (cloth / disk / sand media filter) in Sewage Treatment Plant in India and the tertiary Filter should be in Operation for a period of minimum one year during last 7 years as on date of Bid submission.**	Kindly note that a construction of Tertiary Treatment Plant using Tertiary Filtration (cloth/ Disk/ sand media filter) is not challenging, and the same will be completed by installing the Membrane of Tertiary treatment (cloth/ Disk/ sand media filter) which will be procured and installed from the Vendor listed in the Approved Vendor List. Hence, for healthy competition, t is requested to allow the bidder to have MoU/Tie-Up with Tertiary Treatment (cloth/ disk/ sand media filter) membrane manufacturer, dealer or channel partners. Please confirm.	Tender conditions prevail.
89	Pg. no. 47, Vol 2/ Sec 7 Part 8	Clause 8.11.1 Tubular Type diffusers: The porous membrane material shall be either PU or SILICON based on the process requirement and durability for long run.	EPDM membranes are generally used for sewage applications and PU/ Silicon elastomer membranes are generally used for industrial applications. Many STPs are working satisfactorily with EPDM membranes and meet the effluent parameters. Please accept EPDM membrane suitable for SBR application.	Clause 8.11.1 deleted
90	Pg. no. 47, vol. 2, Sec 7, part 8	Clause 8.11.1 – the diffuser arrangement system should provide equal distribution in the aeration basin and there should	Specification given in the NIT pertaining to Fixed Grid as well as Retrievable Grid.	Clause 8.11.1 deleted

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
		be any dead zones in the basin.	Hence, Bidder may propose any grid installation arrangement suitable for process requirement. Please confirm.	
91	Pg. no. 49, vol. 2, Sec 7, part 8	Clause 8.11.1 - SS 316 Ropes for lifting and guide positioning each diffuser assembly and SS 316 braded hose with SS 316 hose clamp, SS 316 barrel nipple with connector(Drop pipe from each diffuser assembly) shall be provided from each aeration drop leg pipe from platform level to individual diffuser assembly of sufficient length.		
92	Pg. no. 54, vol. 2, Sec 7, part 8	Clause 8.11.8 - Aeration system shall be fixed type grid, membrane disc fine bubble aeration system.		
93	Pg. no. 53, vol. 2, Sec 7, part 8	Clause 8.11.7 -However, the air piping submerged in sewage has to be in SS316 confirming to IS specification.	We presume that only submerged drop pipe is in SS316 and entire lateral air diffuser grid piping is in uPVC (Sch. 40). Please confirm.	
94	Pg. no. 48, vol. 2, Sec 7, part 8	Clause 8.11.1 - (r) Provide diffusers mounted by the action of a threaded component that shall require measurement of the applied torque to the threaded component during tightening. The torque measurement shall lie within the range of torques specified by the diffuser equipment supplier.	Tender specification given for air diffusers are made restrictive & pertaining to one specific vendor. Therefore, we request you to allow us to provide air diffusers as per OEM standard design and construction to fulfill the plant oxygen requirement and to meet the treated effluent requirement. Please accept the same.	Clause 8.11.1-(r)deleted

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
95	Pg. no. 10, vol. 2, Sec 1, part 5-10	Clause 5.5 – Design requirements Minimum efficiency of submersible pumps shall be 70%	Pump efficiency will depend on Duty conditions i.e. flow and head. In every case it is not possible to meet min. efficiency requirement specifically in RAS/SAS/Other application pumps. Hence, it is requested to accept the best pump efficiency as per pump manufacturer.	Tender conditions prevail.
96	Pg. no. 56, vol. 2, Sec 7, part 8	Clause 8.12 - High Speed Turbo Blower	There is ambiguity in the type of blower to be installed. Hence, we presume that the bidder is free to propose any type of Air blower i.e. Turbo or Rotary.	Clause 8.12 deleted
97	Pg. no. 64, vol. 2, Sec 7, part 8-10	Clause 8.15 – Rotary Air Blowers		Clause 1.8 deleted
98	Pg. no. 16, vol. 2, Sec I, part 5	Clause 5.8.4 – Vortex Type Grit Chambers	Tender specifications are given for only Vortex type grit mechanism. We request you to provide the specifications for continuous mechanical scraper type grit mechanism in continuation with Vortex. It is requested to accept the mechanical grit in addition to vortex grit which also fulfill the grit removal requirement.	Tender conditions prevail.
99	Pg. no. 69, vol. 2, Sec 7, part 8-69	Clause 8.18 – Dewatering centrifuges	We understand that bidder is free to propose any type of sludge dewatering machines. Please confirm. Also allow Belt press sludge dewatering machine in addition to centrifuge.	Tender conditions prevail.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
100		General - Shutdown	As the successful bidder has to operate the existing plant during the up-gradation also, hence it will be mandatory to take shutdown the plant at critical point. Therefor we presume that the client will give permission for the shutdown. Please confirm.	It is the responsibility of the contractor to install the equipment stream wise/ equipment wise with working and standby mode without effecting the treatment of influent received.
101		General – Approved Vendor List	There are better makes available in the market than those specified in the list. Moreover, the bidder must operate & maintain the facilities for 5 years. In view of this, it is requested let the bidder select the make of equipment considering its continuous performance for a longer period to minimize the downtime during O&M. this will help in selecting and providing reliable equipment that requires less maintenance during the O&M period. Hence, it is requested let the bidder select the make upon appropriate presentation to the Engineer-in-charge/competent authority during detailed engineering. Please confirm.	Tender conditions prevail.
102		General – site office/contractor's office provided during execution of contract	As per O&M period is 5 years, we request the site office, contractor's office, staff quarters,	Tender conditions prevail and as per the directions of Engineer-in-charge.

Sl. No.	Tender Reference	As per Tender Specifications	Question/Query/ Clarification/Comment	Client Response
			temporary sheds, etc. provided during construction be used by the bidder during the O&M period without demolishing the same. Please confirm.	
103		General – Date of submission	Looking at the volume of the work involved in tender preparation, we request to extend the date of submission at least by 3-4 weeks after receipt off the reply to prebid queries.	Tender conditions prevail.

23/07/2024

Chief Engineer (WWM)-West
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